COMPONENT "B"

DPM 95)

MSDS GROUP: 06 ATTACHMENT PAGE 1 OF 4

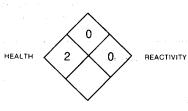


Material safety data

NFPA Designation 704

Phosphoric Acid (70-85%)

HAZARD RATING:
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT



SPECIFIC HAZARD

Emergency telephone (415) 793-1230 Newark, CA (913) 843-3880 Lawrence, KS (201) 541-4171 Carteret, NJ

	Synonyms	Orthop	phosphoric Acid, Monopho	osphoric Acid		in the state of th
uct	Shipping	DOT	Phosphoric Acid			
	name	IATA	Phosphoric Acid			
rod		IMCO	Phosphoric Acid			25.00
م ح	Formula	H₃PO₄		Chem	ical Family Phosphate	

Materia	l or component	ers on the season of the seaso	%	CAS#	Hazard Class
	Phosphoric Acid Water	esta de la companya	70-85 bal	7664-38-2	Corrosive
		ing the second of the second o			Note that the second of the se

_	Melting point	-17.5° C for 75%; +21° C for 85%	Specific Gravity (H ₂ O = 1)	1.5-1.7	
	Boiling point	130-158° C	Solubility in H₂O, % by WT	Infinite	
ical	Vapor pressure	Non-volatile	% Volatiles by Volume	Non-volatile	
	Vapor Density (Air - 1)	Non-volatile	Evaporation rate (butyl	Non-volatile	
Phys data	Room temperature:	Clear, colorless	acetate = 1)	About 1.5	
	appearance & state	liquid	pH (as is)		
	Odor	None	pH (1% solution)	1.7	

Flash point Non-flammable		F1	Upper NA		
Autoignition temp.	Non-combustible	Flammable Limits (air)	Lower NA		
Extinguishing media	Water	☐ CO₂ ☐ Dry Chemical	□ Other NA		
Special fire fighting procedures	Use full protective clothing a toxic fumes of oxides of pho-	and self contained breathing apsphorus.	oparatus. Thermal	decomposition emit	
Degree of fire and explosion hazard	None				
⊠ Stable	☐ Unstable	Hazardous Polymerization	[] May Occur	₩ Will Not Occ	
Conditions to Avoid					
Major contaminates that may contribute to instability Reaction with reactive metals may produce flammable/explosive hydrogen—air mixtures					
Incompatibility Reactive metals (e.g. mild steel and aluminum), bases.					
Hazardous decomposition products At flame temperatures, will emit toxic phosphorus oxide fumes.					

*NA - Not applicable

Health hazard information

Phosphoric acid is the least corrosive of the common mineral acids. It is completely and readily soluble in water. If exposed areas are flushed promptly and thoroughly with water, there should be no harm. Longer term exposure may lead to rash or burns.

Routes of exposure	Route	Hazard classification NIOSH 1974 Pb-246698	Source	Date
	Inhalation	FMC		
	Skin contact	FMC		
	Skin absorption	None	FMC	
	Eye contact	Chemical burn likely	FMC	
	Ingestion	Slightly toxic	FMC	

Effects of Overexposure

Acute exposure Irritant, slightly toxic when inhaled or ingested.

Chronic exposure Slightly toxic with repeated inhalation or ingestion. Causes burns to exposed tissue.

Emergency and first aid procedures

Eyes Flush with copious water for at least 15 minutes. If irritation persists, obtain medical attention.

Skin Wash off with water. If irritation persists, obtain medical attention.

Inhalation Remove from exposure. If breathing is difficult or discomfort persists, obtain medical attention.

Ingestion Rinse mouth with water; give copious water to cause dilution in stomach. DO NOT CAUSE VOMITING.

Decontamination procedures Wash with copious water.

Notes to physician

Moderately corrosive agent which may burn any exposed tissues upon other than very brief contact. Eyes, skin and mucous membranes should be flushed thoroughly with water, and ophthalmologic consultation should be obtained for any corneal burns.

In cases of ingestion, immediate dilution with water, milk or demulcents is worthwhile, but attempts to neutralize with a base should be avoided because of excessive gas and heat formation, which may increase the threat of esophagogastric perforation. Vomiting and diarrhea (laxative effect of phosphates) are expected with large doses. Parenteral fluid administration may be needed if losses therefrom are severe, or shock ensues. Supportive care may be needed for such other complications as glottal edema, hematemesis and perforation (unlikely). Induced vomiting should be avoided because local tissue injury may be aggravated, but the patient should be watched for hyperphosphatemia and hypocalcemia. Milk or other demulcents may be worthwhile for gastric irritation.

2



Special protection information	Ventilation requirements No special requirement.
	Recommended personal protective equipment: Protect eyes and skin from contact.
	Respiratory (Specify conditions) For severe vapor or mist use NIOSH certified self contained breathing apparatus
	Eyes Acid goggles.
	Gloves Rubber or neoprene.
	Special clothing and equipment Where contact is likely, rubber apron and boots.

Precautionary statement

Corrosive to mild steel and aluminum equipment.

Storage and handling

Store in cool, dry, well ventilated location.

Store in suitable containers (e.g. glass, fiberglass, reinforced plastic, polyethylene lined drums, type 316 stainless steel, etc.).

•	Aquatic toxicity classification NIOSH RTECS No. 79-100	TLm 96: 100-1000 ppm. Practically non-toxic.	Source Registry of Toxic Effects of Chemical Substances	Date 1979				
Disposal, spill or leak procedures	Procedure for release or spill							
	Dike and net	utralize.						
	Waste disposal method							
	Dispose according to e be suitable.	environmental regulations. After ne	eutralization, landfill should no	rmally				
	Neutralizing chemicals Lime, Soda	Ash.						

3



	Chemtrec Emergency Telephone: (800) 424-9300
F	Proper shipping name Phosphoric Acid
	DOT classification Corrosive Material
[DOT labels Corrosive
•	DOT marking Phosphoric Acid
1	DOT placard Corrosive
Į	UN number UN 1805
ł	Hazardous substance/RQ 5000 lbs
4	49 STCC number 4930248
E	Emergency accident precautions and procedures
ı	Precautions to be taken in transportation
(CMA chemcard number
-	Type packages Bulk; various drums.

	Material is report	ted in EPA TSCA inventory lis	t 🛚 Yes 🗈	□ No 197	79	
ditional Julatory Julerns	EPA FDA	Hazardous substances list GRAS list, permitted in food	40 CFR	116.4		100 (100 (100 (100 (100 (100 (100 (100
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